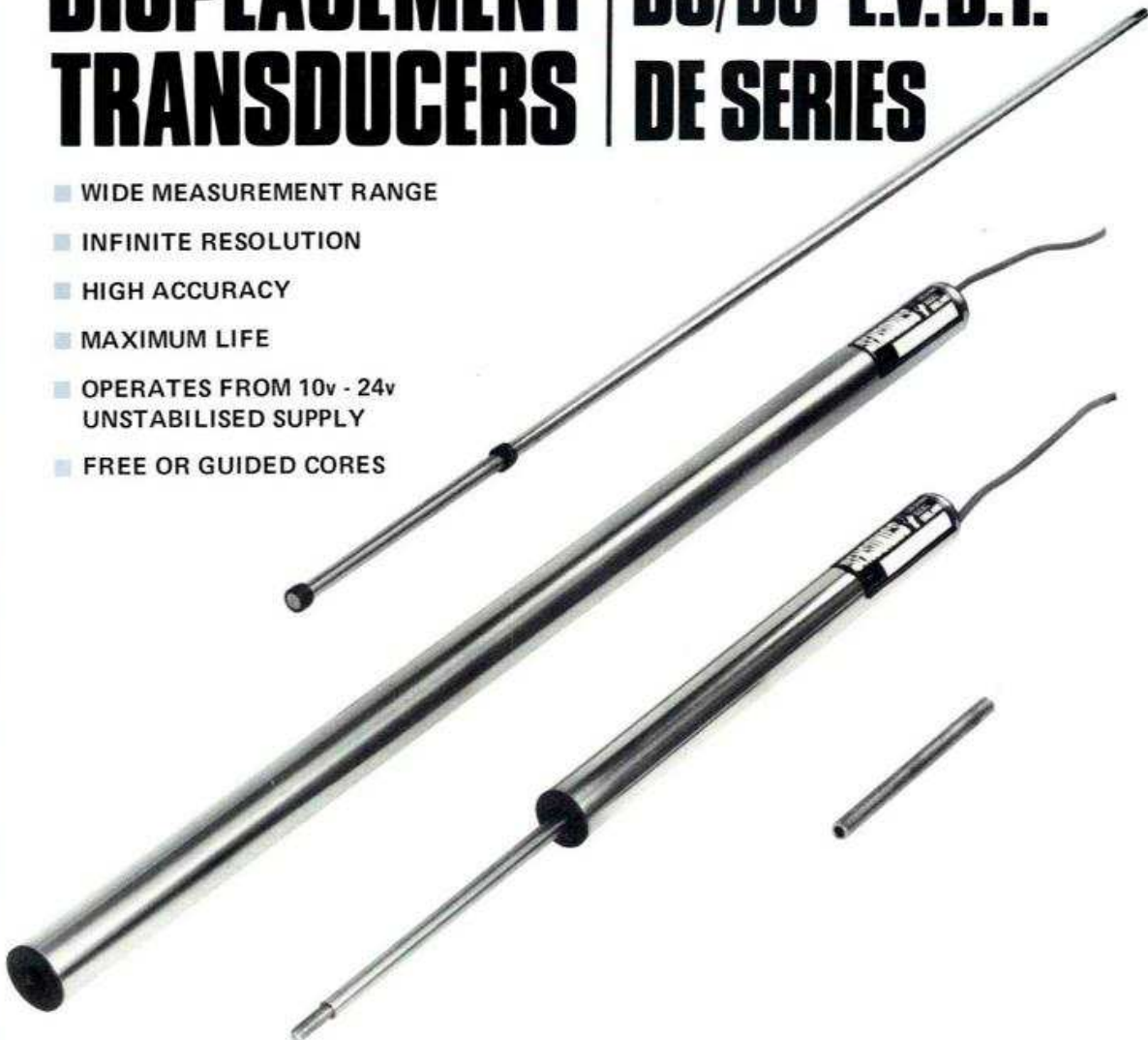


DISPLACEMENT | DC/DC-L.V.D.T. TRANSDUCERS | DE SERIES

- WIDE MEASUREMENT RANGE
- INFINITE RESOLUTION
- HIGH ACCURACY
- MAXIMUM LIFE
- OPERATES FROM 10v - 24v UNSTABILISED SUPPLY
- FREE OR GUIDED CORES



The Sensonics DE series of DC input-DC output transducers offer a simple, inexpensive solution to many applications involving linear displacement measurement or monitoring.

These include displacement monitoring and control functions in industrial processes, position feedback elements in servo hydraulic control systems; measuring elements in extensometers in materials testing systems.

This DE Series extends from ± 25 mm to ± 300 mm and is the standard Sensonics DC-DC economy range offering those parameters most commonly required, e.g. reasonable bore to core clearance, substantial extension rods, etc.

Other DC-DC Series available are

DF Series ± 15 mm to ± 50 mm

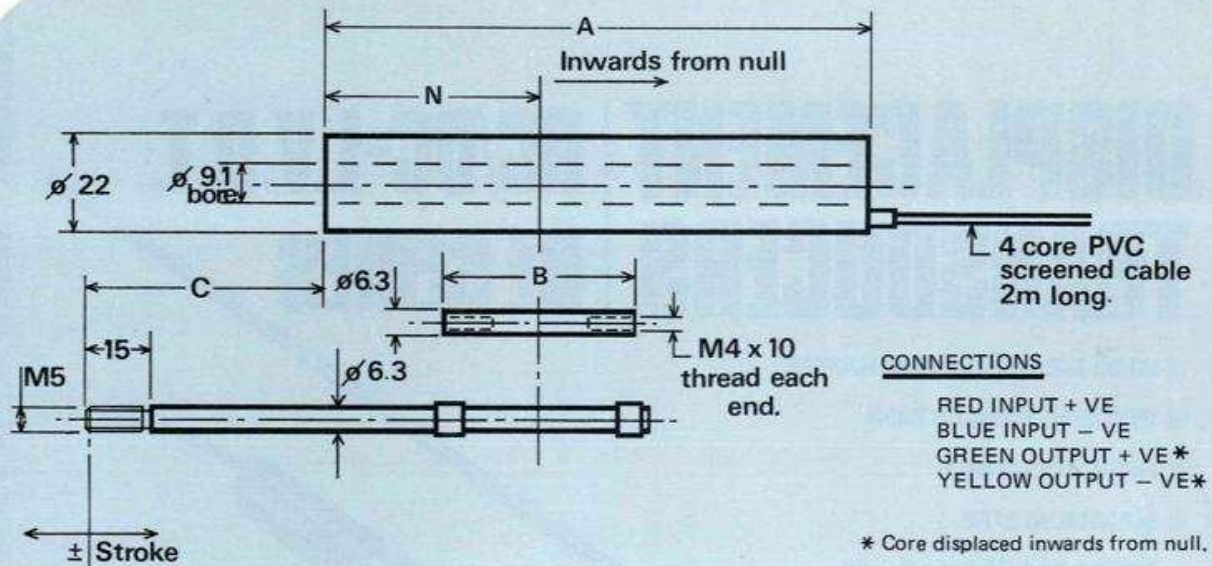
DM Series ± 2.5 mm to ± 50 mm

Free cores (Type DEF) or guided cores with extensions (Type DEG) are available to provide versatile units for applications involving additional packaging for the more vigorous environments.

Units will operate from unstabilised input supplies of 10v to 24v (DE.300 10v to 15v). Units are of sealed construction suitable for operation in normal industrial environments.

SENSONICS

DC/DC L.V.D.T. Displacement Transducers DE SERIES



FREE CORE - DE F SERIES

GUIDED CORE - DE B SERIES

SPECIFICATION

Mechanical

FREE CORE	GUIDED CORE							
	DEG 25	50	75	100	125	150	200	300
Stroke \pm mm	25	50	75	100	125	150	200	300
A mm	220	299	371	502	502	502	695	924
B mm	64	76	79	152	119	102	142	189
C mm	72	108	143	160	176	190	265	355
N mm	82	124	149	215	215	215	313	428
Core Wt. Gms.	15	18	19	37	29	17	34	49
Extn. Wt. Gms.	32	50	68	75	85	95	129	170

Electrical

Supply Volts	10-24 VDC unstabilized (40 mA)							10V-16V
Output	\pm 2V.DC							
Sensitivity mV/mm	80	54	48	25	16	16	10	12
Output Impedance ohms	3K4	3K4	3K4	3K4	3K4	3K4	3K4	3K4
Output Load ohms	50K	50K	50K	50K	50K	50K	50K	50K
Frequency Response	400 Hz				250 Hz			
Response time constant	0.3 m sec.				0.5 m sec.			
Output Ripple	Less than 0.2% FSD PK. PK.							
Thermal zero shift	Better than 0.02% FRO/ $^{\circ}$ C.							
Thermal span μ	" " 0.05% FRO/ $^{\circ}$ C							
Linearity	\pm 0.5% Standard \pm 0.3% by selection.							

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